

WHAT IS CLAIMED IS

1. A system for wireless communications comprising:
a hand-held wireless communications device;

5 an antenna coupled to the hand-held wireless communications device, the antenna configured to radiate with greater field intensity over an area of less than 360 degrees of arc; and

wherein the antenna is oriented such that the area of
10 less than 360 degrees of arc is in the direction away from a head of a user of the hand-held wireless communications device.

2. The system of claim 1 wherein the patch antenna is
15 provided so as to filter the radiated signal by radiating the radiated signal within a narrow, predetermined band.

3. The system of claim 1 wherein the antenna is a patch antenna that is configured to radiate with greater
20 field intensity over an area of less than 360 degrees of arc.

4. The system of claim 1 wherein the antenna is a loop antenna that is configured to radiate with greater
25 field intensity over an area of 180 degrees of arc.

5. The system of claim 1 further comprising a receive antenna coupled to the hand-held wireless communications device, wherein the receive antenna has an orthogonal field
30 of reception relative to the antenna.

6. The system of claim 1 further comprising a receive antenna coupled to the hand-held wireless communications device, wherein the receive antenna is a patch antenna.

5 7. The system of claim 1 wherein the impedance of the antenna is matched to the impedance of a power amplifier of the hand-held wireless communications device.

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5 8. A system for wireless communications comprising:
a hand-held wireless communications device;
a transmit antenna coupled to the hand-held wireless
communications device; and
a receive antenna coupled to the wireless
communications device.

9. The system of claim 8 wherein the hand-held
wireless communications device is a cellular telephone.

10 10. The system of claim 8 wherein the transmit antenna
has a transmit field that is orthogonal to the reception
field of the receive antenna.

15 11. The system of claim 8 wherein the transmit antenna
and the receive antenna are each patch antennas, and are
each contained within a housing of the hand-held wireless
communications device.

20 12. The system of claim 8 wherein the transmit antenna
and the receive antenna are each patch antennas, and are
each contained within an integrated circuit package.

13. A method for transmitting and receiving wireless communications comprising:

transmitting electromagnetic radiation carrying encoded data in a first direction;

5 receiving electromagnetic radiation carrying encoded data from a second direction; and

wherein the first direction is different from the second direction.

10 14. The method of claim 13 wherein transmitting electromagnetic radiation carrying encoded data in a first direction further comprises orienting the transmitted electromagnetic radiation such that it is directed away from a user.

15 15. The method of claim 13 wherein orienting the transmitted electromagnetic radiation such that it is directed away from the user comprises holding a cellular telephone handset such that the transmitted electromagnetic
20 radiation is directed away from the user's head.

16. The method of claim 13 wherein the first direction is orthogonal to the second direction.

17. A system for cellular communications comprising:
a plurality of service cells, each service cell having
an associated base station;

5 one or more handheld wireless communications devices
having at least one directional antenna; and

wherein the plurality of service cells are coordinated
to provide communications services to the one or more
handheld wireless communications devices when each device
changes the orientation of its associated directional
10 antenna.

18. The system for cellular communications of claim 17
wherein each handheld wireless communications device has a
patch antenna that is used to transmit signals.

15 19. The system for cellular communications of claim 17
wherein each handheld wireless communications device has a
patch antenna that is used to receive signals.

20 20. The system for cellular communications of claim 17
wherein each handheld wireless communications device further
comprises:

a transmit patch antenna that is used to transmit
signals; and

25 a receive patch antenna that is used to receive
signals.

21. The system for cellular communications of claim 17
wherein each handheld wireless communications device further
comprises:

5 a patch antenna that is used to transmit signals; and
a monopole antenna that is used to receive signals.